

This listing of claims will replace all prior versions, and listings, of claims in the application.

In the Claims:

1. (CURRENTLY AMENDED) A self-contained popcorn popper for use in an area and said popper comprising a cabinet including a popcorn receiving chamber having a top wall, a popcorn popping kettle assembly including a kettle and a kettle top located entirely within the cabinet popcorn receiving chamber and spaced from the top wall thereof, and a popped popcorn bin in the popcorn receiving chamber for receiving popped popcorn from the kettle ~~within the cabinet~~, said popper further comprising:

a filter passage having an inlet within the popcorn receiving chamber of the cabinet and proximate said kettle, said inlet being in fluid communication with said kettle assembly, but unconnected from said kettle and said kettle top;

a plurality of filtration stations within the filter passage for removing particulates from a vapor effluent issuing from the popping of popcorn in said kettle; and

a blower for sucking vapor effluent into said inlet and through said passage discharging filtered effluent into said area.

2. (PREVIOUSLY PRESENTED) A popper as in claim 1 wherein said plurality of filtration stations are configured such that said filtered effluent discharging from said blower contains less than 5 milligrams of particulates per cubic meter of effluent discharged.

3. (ORIGINAL) A popper as in claim 2 wherein said inlet, passage and blower are contained in said cabinet.

4. (ORIGINAL) A popper as in claim 3 wherein said blower includes an effluent outlet discharging into said cabinet and said effluent being vented outwardly of said cabinet into said area.

5. (CURRENTLY AMENDED) A popper as in claim 4 wherein said inlet is located in an upper portion of said cabinet and [[such]] said blower is located in a lower portion of said cabinet.

6. (PREVIOUSLY PRESENTED) A popper as in claim 3 wherein said cabinet has two opposite sides which are each open for operator access therein.

7. (PREVIOUSLY PRESENTED) A popper as in claim 1 wherein said cabinet has two opposite sides which are each open for operator access therein.

8. (ORIGINAL) A popper as in claim 1 wherein said inlet comprises a vapor oil baffle.

9. (PREVIOUSLY PRESENTED) A popper as in claim 8 wherein said plurality of filtration stations comprises first and second filters, sequentially disposed in said passage downstream of said baffle, said first filter filtering salt and grease particulates from said effluent after passage thereof past said baffle and said second filter filtering smoke particulates from said effluent downstream of said first filter.

10. (PREVIOUSLY PRESENTED) A popper as in claim 9 wherein said blower is configured to move effluent through said passage at a velocity of less than 500 feet per minute.

11. (CURRENTLY AMENDED) A popcorn popper having comprising a cabinet including a popcorn receiving chamber having a top wall [[with]] and a popcorn popping kettle assembly including a kettle and a kettle top [[in]] located entirely within said cabinet popcorn receiving chamber and spaced from the top wall thereof,

a filter passage with an inlet in an upper portion of said ~~cabinet~~ popcorn receiving chamber and proximate said kettle, said inlet being in fluid communication with said kettle assembly, but unconnected from said kettle and said kettle top;

a plurality of filtration stations in said passage; and

a blower ~~in a lower portion of said cabinet~~ operably coupled to said passage for sucking vapor effluent from said kettle into said inlet and through said filtration stations;

said blower having a discharge outlet for discharging filtered vapor effluent from said cabinet.

12. (CURRENTLY AMENDED) A popper as in claim 11 wherein said blower is disposed in a lower portion of said cabinet and said passage comprises a vertical run above said blower and wherein two filtration stations are disposed in said vertical run.

13. (ORIGINAL) A popper as in claim 12 wherein said passage inlet comprises a vapor oil separating baffle for receiving oil laden vapor and separating therefrom oil therein.

14. (ORIGINAL) A popper as in claim 13 wherein a first filtration station downstream of said baffle in said passage comprises a particular filter for removing grease and salt particles from said effluent.

15. (ORIGINAL) A popper as in claim 14 wherein a second filtration station downstream of said first filtration station in said passage comprises a filter for removing smoke components from said effluent.

16. (PREVIOUSLY PRESENTED) A popper as in claim 15 wherein said plurality of filtration stations are configured such that said effluent discharged from said blower contains no more than five milligrams per cubic meter of particulates discharged from said blower.

17. (PREVIOUSLY PRESENTED) A popper as in claim 16 wherein said blower is configured such that the velocity of vapor effluent in said passage is below 500 feet per minute.

18. (ORIGINAL) A popper as in claim 11 further including at least one effluent pressure sensor in said passage for sensing pressure changes and for signaling an efficiently reduction in at least one of said filtration stations as a function of pressure change in said effluent.

19. (ORIGINAL) A popper as in claim 11 wherein said kettle has a lid and further including an oil baffle in said lid, said baffle being open for selective passage of a fire suppressant agent into said kettle.

20. (CURRENTLY AMENDED) A popcorn pass-through popcorn popper having a cabinet with two opposite open sides providing access to a popcorn receiving ~~[[area]]~~ chamber having a top wall and a popcorn popping assembly including a kettle and a kettle top located entirely within said popcorn receiving chamber and spaced from the top wall thereof, said popper having a vapor effluent treating passage for filtering vapors issuing from the popping of popcorn in ~~[[a]]~~ said kettle assembly ~~including a kettle and a kettle top~~ during a popping operation and for discharging filtered effluent into the environment in which said popper is located, and wherein said popper further comprises:

an effluent passage;

a passage inlet disposed in an upper portion of said cabinet popcorn receiving chamber, said inlet being in fluid communication with said kettle assembly, but unconnected from said kettle and said kettle top;

a plurality of filtration stations in said passage; and

a blower for sucking effluent into said inlet and through said passage, ~~and said blower being disposed in a lower portion of said cabinet.~~

21. (ORIGINAL) A popper as in claim 20 wherein said passage and blower are disposed within said cabinet.

22. (CURRENTLY AMENDED) A popper as in claim 21 wherein said blower has an outlet disposed for discharging effluent from said passage [[onto]] into said cabinet.

23. (PREVIOUSLY PRESENTED) A popper as in claim 22 wherein said plurality of filtration stations are configured such that said blower outlet discharges effluent having less than 5 milligrams of particulate per cubic meter of effluent discharged.

24. (CURRENTLY AMENDED) A popcorn popper comprising a cabinet including a popcorn receiving chamber having a top wall and having a popping kettle assembly including a kettle and a kettle top located entirely within said popcorn receiving chamber and spaced from the top wall thereof and a bin in the cabinet popcorn receiving chamber for receiving popped popcorn from said kettle, said popper further comprising:

open sides on each opposite side of said cabinet providing access to at least said popcorn receiving chamber and said bin;

a filtration passage for receiving effluent including vapors from the popping of said popcorn;

said passage having an inlet in an upper ~~position~~ portion of said cabinet popcorn receiving chamber at a level above said bin, said inlet being in fluid communication with said kettle assembly, but unconnected from said kettle and said kettle top;

a plurality of filtration stations in said passage for filtering oil, particulates and smoke components from said effluent; and

a blower disposed in a lower portion of said cabinet at a level below said bin for sucking effluent into said passage and discharging filtered effluent.

25. (ORIGINAL) A popper as in claim 24 wherein said passage and blower are disposed within said cabinet.

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26. (ORIGINAL) A popper as in claim 25 wherein said blower has an outlet within said cabinet for discharging effluent from said passage into said cabinet.

27. (CURRENTLY AMENDED) A method of popping popcorn and filtering oil-laden vapor and steam from effluent produced during said popping in a cabinet of a popper including a popcorn receiving chamber having a top wall including the steps of:

popping popcorn in a kettle assembly including a kettle and a kettle top located entirely within a popper cabinet said popcorn receiving chamber and spaced from the top wall thereof, said popper cabinet being disposed in an area;

sucking effluent produced by said popping step into an ~~inlet~~ of a filtration passage in closed fluid communication with said popcorn receiving chamber, said ~~[[inlet]]~~ filtration passage being in fluid communication with said kettle assembly, but unconnected from said kettle and said kettle top;

separating oil from said effluent ~~as it enters said inlet~~ in said passage;

separating grease and salt particles from said effluent in said passage ~~downstream of said baffle~~;

separating smoke components from said effluent downstream of said grease and salt separating step; and

discharging effluent downstream of said smoke component separating step into the area in which the cabinet is located.

28. (PREVIOUSLY PRESENTED) A method as in claim 27 wherein said discharging step includes discharging effluent containing less than 5 milligrams of particulates per cubic meter discharged.

29. (ORIGINAL) A method as in claim 27 wherein said separation steps are carried out within said cabinet.

30. (ORIGINAL) A method as in claim 29 wherein said discharging step includes discharging effluent into said cabinet.

31. (ORIGINAL) A method as in claim 27 further including monitoring the status of apparatus carrying out at least one of said separating steps and indicating deterioration of separation efficiency of said at least one separating step.

32. (CURRENTLY AMENDED) A method of filtering oil-laden vapor and steam from effluent produced during popping of popcorn in a cabinet of a popper including a popcorn receiving chamber having a top wall and a kettle assembly including a kettle and a kettle top located entirely within said popcorn receiving chamber and spaced from the top wall thereof ~~[[of a]]~~ with said popper being oriented in a popping area, ~~[[and]]~~ including the steps of:

sucking effluent produced by said popping into ~~an inlet of~~ a filtration passage in closed fluid communication with said popcorn receiving chamber, said ~~[[inlet]]~~ filtration passage being in fluid communication with said kettle assembly, but unconnected from said kettle and said kettle top;

separating oil from said effluent ~~as it enters said inlet~~ in said passage;

separating grease and salt particles from said effluent in said passage ~~downstream of said separating oil step~~;

separating smoke components from said effluent ~~downstream of said grease and salt separating step~~ in said passage; and

discharging effluent downstream of said smoke component separating step into the popping area in which the popper is located.

33. (CURRENTLY AMENDED) A method of separating oil, grease and smoke from effluent discharged from the popping of popcorn in a cabinet of a popper including a popcorn receiving area having a top wall and a kettle assembly including a kettle and a kettle top located entirely within said popcorn receiving chamber and spaced from the top wall thereof ~~[[of a]]~~ with said popper being disposed in an area, ~~[[and]]~~ including the steps of:

capturing said effluent produced by said popping into ~~an inlet of~~ a filtration passage in closed fluid communication with said popcorn receiving chamber, said ~~[[inlet]]~~ filtration passage being in fluid communication with said kettle assembly, but unconnected from said kettle and said kettle top;

separating oil, grease and smoke from said effluent in said passage to produce filtered effluent; and

discharging said filtered effluent into said area proximate said popper.

34. (CURRENTLY AMENDED) A self-contained popcorn popper in combination with a filtration apparatus for filtering effluent from popping of popcorn in a cabinet of a popper including a popcorn receiving chamber having a top wall and a kettle assembly including a kettle and a kettle top located entirely within said popcorn receiving chamber and spaced from the top wall thereof ~~[[of the]]~~ with said popper being disposed in an area, said filtration apparatus comprising:

a filter filtration passage ~~having an inlet in closed fluid communication with said popcorn receiving chamber~~ for receiving effluent from said popper, said ~~[[inlet]]~~ filtration passage being in fluid communication with said kettle assembly, but unconnected from said kettle and said kettle top;

a plurality of filtration stations within the ~~[[filter]]~~ passage for removing particulates from a vapor effluent issuing from the popping of popcorn in said popper; and

a blower for sucking vapor effluent ~~into said inlet and~~ through said passage, said blower having an outlet discharging filtered effluent into said area proximate said popper.

35. (CURRENTLY AMENDED) In combination, a popcorn popper comprising a cabinet including a popcorn receiving chamber having a top wall, ~~[[with]]~~ a popcorn popping kettle assembly including a kettle and a kettle top ~~[[in]]~~ located entirely within said cabinet popcorn receiving chamber and spaced from the top wall thereof and a filtration apparatus, said filtration apparatus comprising:

a ~~[[filter]]~~ filtration passage with an inlet proximate an upper portion of said cabinet popcorn receiving chamber and proximate said kettle, said inlet being in fluid communication with said kettle assembly, but unconnected from said kettle and said kettle top;

a plurality of filtration stations in said passage; and

a blower operably coupled to said passage for sucking vapor effluent from said kettle into said inlet and through said filtration stations;

said blower having a discharge outlet for discharging filtered vapor effluent from said cabinet into an area proximate said popper and said filtration apparatus.

36. (CURRENTLY AMENDED) In combination, a popcorn pass-through popcorn popper having a cabinet with two opposite open sides providing access to a popcorn receiving ~~[[area]]~~ chamber including a top wall, a popcorn popping assembly including a kettle and a kettle top located entirely within said popcorn receiving chamber and spaced from the top wall thereof, and a filtration apparatus having a vapor effluent treating passage for filtering vapors issuing from the popping of popcorn in ~~[[a]]~~ said kettle assembly including a kettle and a kettle top during a popcorn popping operation and for discharging filtered effluent into the environment within which said popper is located proximate thereto, and wherein said filtration apparatus further comprises:

~~an effluent passage;~~

~~[[a]] an effluent passage inlet operably disposed in closed fluid communication with said popcorn receiving chamber~~ for receiving vapor effluent from an upper portion of said cabinet, said ~~[[inlet]]~~ effluent passage being in fluid communication with said kettle assembly, but unconnected from said kettle and said kettle top;

~~a plurality of filtering stations in said passage;~~

~~a blower for sucking effluent into said inlet and through said passage; and~~
said blower having an outlet disposed to discharge filtered effluent into the environment proximate said popper.